

FY2006

FORT HUACHUCA
ARIZONA
INSTALLATION ACTION PLAN

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Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multi-year restoration program for an installation. The plan will define Installation Restoration Program (IRP) requirements and propose a comprehensive approach and associated costs to conduct future investigations and remedial actions at each Solid Waste Management Unit (SWMU) at the installation and other areas of concern.

In an effort to coordinate planning information between the IRP manager, Installation Management Agency (IMA), installations, executing agencies, regulatory agencies, and the public, an IAP has been completed for Fort Huachuca. The IAP is used to track requirements, schedules and tentative budgets for all major Army installation restoration programs.

All site specific funding and schedule information has been prepared according to projected overall Army funding levels and is therefore subject to change during the document's annual review. All sites have Remedy In Place (RIP) and LTM/RAO is expected to continue through 2012.

The following agencies contributed to the formulation and completion of this Installation Action Plan on January 24, 2005:

Engineering and Environmental Consultants, Inc.

Engineering and Environment, Inc.

Fort Huachuca

Installation Management Agency, Southwest Region

US Army Environmental Center

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Acronyms & Abbreviations

AAF	Army Airfield
ADEQ	Arizona Department of Environmental Quality
AEDB-R	Army Environmental Database- Restoration
AWQS	Aquifer Water Quality Standard
bgs	Below Ground Surface
BRAC	Base Re-Alignment and Closure
CA	Consent Agreement
CAP	Corrective Action Plan
COL	Colonel
CPOC	Civilian Personnel Operating Center
DERA	Defense Environmental Restoration Account
DoD	Department of Defense
EPA	Environmental Protection Agency
ER,A	Environmental Restoration, Army (previously referred to as DERA)
FS	Feasibility Study
FTHU	Fort Huachuca
FY	Fiscal Year
HBGL	Health Based Guidance Level
HRR	Historical Records Review
JITC	Joint Interoperability Test Command
IAP	Installation Action Plan
IMA	Installation Management Agency
INV	Investigation
IRA	Interim Remedial Action
IRP	Installation Restoration Program
ISC	Initial Site Characterization
LA AF	Libby Army Airfield
LTM	Long Term Monitoring (in AEDB-R M is for ‘management’)
LUST	Leaking Underground Storage Tank
MC	Munitions Constituents
MEC	Munitions and Explosives of Concern
MI	Military Intelligence
MMRP	Military Munitions Response Program
MTBE	Methyl Tertiary Butyl Ether
NETCON	Network Enterprise Technology Command
NFA	No Further Action
NPL	National Priority List
OB/OD	Open Burning Open Detonation
ORC	Oxygen Release Compounds
PA	Preliminary Assessment
PAH	Polycyclic Aromatic Hydrocarbons
Pesticides	Pesticides include Dieldrin, DDD, DDT, DDE Diethyl phthalane
ppm	Parts per million
POL	Petroleum, Oil & Lubricants
PX	Post Exchange
RA	Remedial Action
RA(C)	Remedial Action - Construction

Acronyms & Abbreviations

RA(O)	Remedial Action - Operation
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
REM	Removal Action
RI	Remedial Investigation
RIP	Remedy in Place
RMIS	Restoration Management Information System
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SI	Site Inspection
SRLr	Soil Remediation Level residential (AZ)
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compounds
SWMU	Solid Waste Management Unit
TAPP	Technical Review for Public Participation
TPH	Total Petroleum Hydrocarbons
TRADOC	Training and Doctrine Command
TRC	Technical Review Committee
USACHPPM	United States Army Center for Health Promotion and Preventive Medicine
USAEC	United States Army Environmental Center
USAEHA	United States Army Environmental Hygiene Agency (replaced by CHPPM)
USAIC	US Army Intelligence Center
USATHMA	United States Army Toxic and Hazardous Material Agency (replaced by
USAEC)	
UST	Underground Storage Tank
UXO	Unexploded Ordnance
VOC	Volatile Organic Compounds

INSTALLATION LOCALE: Fort Huachuca (FTHU) is located on approximately 73,000 acres of land in Cochise County, Arizona. It is bisected by Arizona State highway 90. The City of Sierra Vista (population 37,800) is located on the eastern boundary of the installation. Huachuca City (population 2,000) is located on the north eastern boundary of the post.

INSTALLATION MISSION: Current missions include the U.S. Army Intelligence Center (USAIC) and their 111th Military Intelligence Brigade's training mission; and the headquarters of the Network Enterprise Technology Command (NETCOM) with their 11th Signal Brigade. Electronics Testing missions are conducted by the Joint Interoperability Test Command, the Electronic Proving Ground and other testing organizations. In 2003, Fort Huachuca Garrison transferred from U.S. Army Training and Doctrine Command (TRADOC) and began operations under the Installation Management Agency.

COMMAND ORGANIZATION:

- Fort Huachuca, US Army Garrison Directorate of Public Works, Environmental and Natural Division

LEAD EXECUTOR:

- Fort Huachuca Environment and Natural Resources Division of the Directorate of Public Works

REGULATOR PARTICIPATION:

- U.S. Environmental Protection Agency, Region IX
- Arizona Department of Environmental Quality

NPL STATUS: No NPL sites have been identified at Fort Huachuca.

RAB/TRC/TAPP STATUS: No RAB/TRC/TAPP current at Fort Huachuca. The public was last surveyed for interest in 2002.

PROGRAM SUMMARIES:

IRP

Contaminants of Concern: Explosive Wastes/Residues, Herbicides, Pesticides, Arsenic, Petroleum Products, Benzene, Hydrocarbons, PAH, Lead, VOCs, MTBE and Solvents

Media of Concern: Soil, Groundwater

Estimated Date for RIP/RC: 2021

Funding to Date (up to FY05): \$7,183,905

CTC: \$655,000

MMRP

Contaminants of Concern: UXO

Media of Concern: Soil, Groundwater

Estimated Date for RIP/RC: 2015+

Funding to Date: \$0

CTC: \$108,642,000

BRAC: There are no BRAC sites at Fort Huachuca

Cleanup Program Summary

HISTORIC ACTIVITY: Fort Huachuca was founded in the 1880's as part of the western expansion. It operated as a cavalry post until the outbreak of World War II, when it became a training base. The fort was inactive briefly in the early 1950's. Following reactivation in 1954, the Fort's primary missions included signal communications and electronics testing. In 1954, the fort was designated as the U.S. Army Electronics Proving Ground. Since that time, additional missions have been added. These include communications testing, Military Intelligence training, and various flight operations from unmanned aerial vehicles to C-130 training. Other major tenants on the installation include the Joint Interoperability Test Command (JITC), the Network Enterprise Technology Command (NETCOM), the US Army Intelligence Center,

In 1990, Fort Huachuca was designated a TRADOC installation and command transferred to the USAIC, which gained additional missions as part of the Base Realignment and Closure initiatives. The permanent population of service members and dependents is approximately 9,000. Several thousand civilian employees are employed at the installation during the day.

FTHU is not on the National Priority List (NPL). The Compliance Order initially issued to the installation in July of 1991 by the Arizona Department of Environmental Quality (ADEQ) has been dismissed without prejudice. During discussions, the installation agreed to enter into bilateral consent orders for hazardous waste, USTs, and solid waste.

The installation has negotiated consent orders with the State of Arizona for hazardous waste and underground storage tanks. No agreement for solid waste is required since sites in question (mostly petroleum contaminated soil) were remediated. Fort Huachuca shall continue to work with the state in preparing corrective action plans and remediation of the remaining Restoration Management Information System (RMIS) sites on the installation. The new soil clean up standards adopted in December 1997 have resulted in the closure of many RMIS sites. Additional site investigation work may be necessary based on future comments from state regulators.

PROGRAM PROGRESS:

IRP: Two sites remain under remediation, three are in long-term monitoring/management and the remainder have been closed or certified by the state as requiring no further action.

MMRP: No work has been initiated or completed at the MMRP sites.

BRAC: There are no BRAC Sites at Fort Huachuca

FORT HUACHUCA

INSTALLATION RESTORATION PROGRAM

NUMBER OF AEDB-R/SITES RC: 62/57

AEDB-R SITE TYPES:

13	Contaminated Buildings
2	Disposal Pit/Dry Well
3	Explosive Ordnance Disposal Area
1	Fire/Crash Training Area
8	Landfill
1	POL Lines
1	Soil Contamination After Tank Removal
10	Spill Area Site
2	Storage Area
3	Surface Disposal Area
10	UST
4	Underground Tank Farm
2	UXO
1	Waste Treatment Plant

CONTAMINANTS OF CONCERN: Explosive Wastes/Residues, Herbicides, Pesticides, Arsenic, Petroleum Products, Benzene, Hydrocarbons, PAH, Lead, VOCs, MTBE and Solvents

MEDIA OF CONCERN: Groundwater, Soil

COMPLETED REM/IRA/RA:

RA at FTHU-52, 53, 54A, 57, 71, 72, 83, 85, 90

TOTAL ER, A FUNDING:

Prior Year Funds (up to FY04):	\$ 7,182,905
Current Year (FY05):	\$ 111,479
Future Requirements (FY06+):	<u>\$ 655,000</u>
Total:	\$ 7,837,905

DURATION OF IRP:

Year of IRP Inception	1989
Year of RA Completion	2008
Year of IRP Completion	2021

Site investigations and groundwater monitoring were conducted by the US Army Environmental Hygiene Agency (USAEHA), US Army Toxic and Hazardous Materials Agency (USATHAMA, now known as the Army Environmental Center, USAEC), and the US Army Corps of Engineers, Omaha and Sacramento Districts. Additionally, the installation continued investigations and groundwater monitoring through direct contracts. The Fort Huachuca Environmental and Natural Resources Division is responsible for the IRP program.

The Installation Assessment of Fort Huachuca, Report No. 172, was published by USAEC in June 1980. The report identified explosive wastes, herbicides, pesticides, and arsenic as major contaminants of concern on the installation and listed training areas, old landfills and burial sites, demolition/burning grounds, and the Willcox Dry Lake bed as areas with potential contamination. In 1987, USAEC performed additional site assessments to determine if conditions had changed and if such changes, coupled with interim changes in environmental regulations or mission, had altered the contaminant migration/hazard situation, and published their assessment. The report concluded that soil contamination may exist at the former Fire-Fighter Training Area, the POL Storage Facility-Libby AAF, Military POL Filling Station, PX Service Station, and the 1970 to 1975 era landfill. The report recommended further testing and analysis at these sites. The report also identified potential sites from aerial photographs. Various additional assessments and site investigations were performed in partnership with the US Army Corps of Engineers, Omaha District. Sites included FTHU-10, 17, 18, 51, 52, 53, and 57. In 1993, work was transferred to the Sacramento District who investigated sites FTHU-66 through 84.

The Fort and ADEQ signed a RCRA Consent Agreement (D-10-91) on 23 September 1994. The Consent Agreement (CA) required the fort to remediate sites at the 11th Signal Brigade Motor Pool RMIS Sites FTHU-71 and FTHU-72. These sites were remediated in FY95. The CA also required preparation of a RCRA Closure Plan for the Open Burning/Open Detonation Sites on the fort. The plan was approved by ADEQ and work progresses. The OB/OD sites FTHU-17, 18, and 89 are no longer IRP eligible, as DERA funding is not being used. No further action is required with the IRP.

An Underground Storage Tank (UST) Consent Order required the installation to prepare Leaking Underground Storage Tank (LUST) Site Characterizations for the following sites; FTHU-78, FTHU-79, FTHU-80, FTHU-81, FTHU-84, FTHU-86, FTHU-87, and FTHU-88. The site investigations for the releases were completed in 1998 and all LUST files have been closed by the State. The CA required initiation of corrective action at the following sites; FTHU-54A (PX Service Station), FTHU-85 (Greely Hall Diesel Release), and FTHU-90 (Greely Hall Gasoline Release). An air sparging system was installed in 1994 for remediation of petroleum hydrocarbons and in 1999 Oxygen Release Compounds (ORCs) were released into the groundwater for remediation of Methyl Tertiary Butyl Ether (MTBE) at FTHU-54A. LTM, air sparging, and release of ORCs will continue at FTHU-54A until groundwater cleanup is achieved. A bio-venting system was installed in 1997 for the diesel release at FTHU-85 and a soil vapor extraction system was installed in 2000 at FTHU-90 for the gasoline release and continued remediation is required. These sites all had historic records indicating that the leaks had occurred prior to 1986.

The ADEQ required groundwater monitoring at FTHU-10, South Range Landfill. The site consists of two adjacent landfills used for domestic trash and unknown quantities of herbicides, pesticides, and sodium arsenite. Contamination above HBGL was encountered in leachate samples taken from

Previous Studies

Title	Author	Date
Installation Assessment of Fort Huachuca, Report No. 172, Chemical Systems Laboratory (CSL)	US Army Toxic and Hazardous Materials Agency (USATHAMA), APG, MD	1980
Installation Files for Ft. Huachuca	US Army Toxic and Hazardous Materials Agency (USATHAMA), APG, MD	1980
Radiation Protection Survey No. 28-43-0024-80, US Army Medical Department/Dental Activity	US Army Environmental Hygiene Agency (USAEHA) APG, MD	1980
Pesticide Special Investigation No. 20-44-0571-81, Analysis of Transformer Fluid Samples for Polychlorinated Biphenyls (PCBs), Ft. Huachuca	US Army Environmental Hygiene Agency (USAEHA) APG, MD	1981
Potable/Recreational Water Quality Survey No. 31-66-0181 and Wastewater Engineering Survey No. 32-66-0182-81, Ft. Huachuca and Aurora, CO	US Army Environmental Hygiene Agency (USAEHA) APG, MD	1981
Pesticide Resistance Assessment No. 18-660572-81, Insecticide Susceptibility/Resistance Testing of German Cockroaches from Ft. Huachuca	US Army Environmental Hygiene Agency (USAEHA) Aurora, CO	1981
Nonionizing Radiation Protection Special Study No. 24-42-0715-82 AN/TSC-86 Satellite Terminal, Ft. Huachuca	US Army Environmental Hygiene Agency (USAEHA) APG, MD	1982
Nonionizing Radiation Protection Special Study No. 24-42-0737-82, 20 Mhz-1 Ghz Radiation Test Van, US Army Intelligence and Security Board, Ft. Huachuca	US Army Environmental Hygiene Agency (USAEHA) APG, MD	1982
Radiation Protection Survey No. 28-43-00327-83, US Army Medical Department/Dental Activity, Ft. Huachuca	US Army Environmental Hygiene Agency (USAEHA) APG, MD	1983
Integrated Pest Management Assessment No. 18-660554-83, Cockroach and House Fly Control, Ft. Huachuca	US Army Environmental Hygiene Agency (USAEHA) Aurora, CO	1983
Radiation Protection Survey No. 28-43-0407-84, US Army Medical Department Activity/Dental Activity, Ft. Huachuca, AZ	US Army Environmental Hygiene Agency (USAEHA) APG, MD	1984
Radiation Protection Survey No. 28-43-0905-84, US Army Medical Department Activity/Dental Activity, Ft. Huachuca, AZ	US Army Environmental Hygiene Agency (USAEHA) APG, MD	1984
Pest Resistance Laboratory Study No. 16-66-0542-84, Insecticide Susceptibility/Resistance Testing of German Cockroaches from Ft. Huachuca, AZ	US Army Environmental Hygiene Agency (USAEHA) Aurora, CO	1984
Installation Assessment Relook Program Working Document, Ft. Huachuca Army Reservation, Cochise County, AZ TS-PIC-85X	US Environmental Photographic Interpretation Center (EPIC), Warrenton, VA	1986
Environmental Program Review No. 37-26-7157-90, Ft. Huachuca, AZ	US Army Environmental Hygiene Agency (USAEHA) APG, MD	1989
Environmental Program Review No. 37-26-7157-90, Ft. Huachuca, AZ	US Army Environmental Hygiene Agency, APG, MD	1989
Groundwater Quality Survey No. 38-26-8875-89 potential Groundwater Contamination Sites, Ft. Huachuca		Mar-89
UST Site Investigation, Post Exchange Gas Station, Ft. Huachuca	Kleinfelder, Inc. Ft. Huachuca	Mar-91
Report on Removal of an Underground Storage Tank at Greely Hall, Ft. Huachuca Army Post	Kleinfelder, Inc. Ft. Huachuca	Jun-91
Remedial Investigation Report UST Site: Military POL Filling Station, PX Service Station	James M. Montgomery (JMM) Consulting Engineers, Inc.	May-92
Final Remedial Investigation Report UST Site: Military POL Filling Station, PX Service Station	James M. Montgomery (JMM) Consulting Engineers, Inc.	May-92

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Title	Author	Date
Tank Trails Dump Sites Remedial Investigation Report	James M. Montgomery (JMM) Consulting Engineers, Inc.	May-92
RCRA Facilities Investigation Report: Libby Army Airfield (LAAF) Fire Fighting Training Area, LAAF Aircraft Wash Rack Area, LAAF POL Storage Facility	James M. Montgomery (JMM) Consulting Engineers, Inc.	May-92
Final RCRA Facilities Investigation Report: LAAF Fire Fighting Training Area, LAAF Aircraft Wash Rack Area, LAAF POL Storage Facility	James M. Montgomery (JMM) Consulting Engineers, Inc.	May-92
Subsurface Investigation Building 30126, Underground Storage Tank Excavation, Ft. Huachuca	Hydro Geo Chemical, Inc.	May-92
Permanent Closure of Four 10,000 Gallon USTs Initial Site Characterization, AAFES Service Station, Smith Avenue & Whitside Road, Ft. Huachuca	UST Management	Jun-92
Limited Excavation and Disposal of Petroleum Contaminated Soil Miller & Associates, Inc., Ft. Huachuca AAFES Fuel Facility	Western Technologies Inc.	Jan-93
Draft Interim Report, PX Service Station Interim Response Action, Ft. Huachuca	International Technology Corporation	Aug-93
Draft Interim Report, PX Service Station Interim Response Action, Ft. Huachuca	International Technology Corporation	Aug-93
Report on Subsurface Soil Assessment of JP-4 Fuel Contamination From an Underground Storage Tank System at Libby Army Airfield; USAG Ft. Huachuca	Environmental Engineering Consultants	Aug-93
Draft Report on the Remediation of Petroleum Impacted Soil From Various Sites at USAG Ft. Huachuca	Environmental Engineering Consultants	Feb-94
Report on Assessment of Petroleum Hydrocarbon Contamination at Greely Hall, Ft. Huachuca	Environmental Engineering Consultants	Feb-94
Report on Assessment of Soil and Perched Groundwater at Bldg 31210, AAFES PX Service Station, Ft. Huachuca Army Post	Environmental Engineering Consultants	Feb-94
Final Preliminary Assessment/Site Investigation Report Miscellaneous Non-UST Sites	Montgomery Watson, Inc.	Apr-94
Final Preliminary Assessment/Site Investigation Report Miscellaneous UST Removal Sites	Montgomery Watson, Inc.	Apr-94
Project Work Plan Soil Sampling and Analysis Investigation Open Burning/Open Detonation Units South and East Ranges, Ft. Huachuca	Basin & Range Hydrogeologists, Inc.	May-94
Final Report: Assessment of Subsurface Petroleum Hydrocarbon Impacted Soils at Former Waste Soil Piles (AAFES, Brainard, Radar Station, and Defueling Point), Ft. Huachuca	Environmental Engineering Consultants	Jun-94
Air Sparging System Installation, PX Service Station, Ft. Huachuca, Volumes I & II	International Technology Corporation	Oct-94
Air Sparging System Installation, PX Service Station, Ft. Huachuca	International Technology Corporation	Oct-94
Report on the Remediation of Petroleum Hydrocarbon Impacted Soil From Various Sites at USAG Ft. Huachuca	Environmental Engineering Consultants	Oct-94
Remedial Investigation Report UST Site: Military POL Filling Station, PX Service Station	James M. Montgomery (JMM) Consulting Engineers, Inc.	May-92

Previous Studies

Title	Author	Date
Report on Removal of One 2,000 Gallon Waste Oil Underground Storage Tank, and Subsequent Soil Assessment and Corrective Action at the Auto Craft Shop (Building 71810) Ft. Huachuca	Environmental Engineering Consultants	Dec-94
Soil Sampling and Analysis Investigation Open Burning/Open Detonation Units South and East Ranges, Ft. Huachuca	Basin & Range Hydrogeologists, Inc.	Feb-95
Site N12 Site Characterization Report (TMP Steam Cleaning Facility), Ft. Huachuca	International Technology Corporation	Aug-95
UST Site 6 Site Characterization Report, Ft. Huachuca	International Technology Corporation	Aug-95
UST Site 8 Site Characterization Report, Ft. Huachuca	International Technology Corporation	Aug-95
Site N6 Site Characterization Report, Ft. Huachuca	International Technology Corporation	Aug-95
Project Work Plan Amendment Soil Sampling and Analysis Investigation Open Burning/Open Detonation Units South East Ranges, Ft. Huachuca	Basin & Range Hydrogeologists, Inc.	Aug-95
UST Site 9 Site Characterization Report, Ft. Huachuca	International Technology Corporation	Aug-95
UST Site 7 Site Characterization Report, Ft. Huachuca	International Technology Corporation	Aug-95
Site Characterization Report AAFES Service Station Dispenser Release, Ft. Huachuca Army Post, ADEQ LUST File # 4715.2289	Engineering and Environmental Consultants, Inc.	Oct-95
Report on Excavation, Sampling and Thermal Treatment of Petroleum Impacted Soil at 11th Signal Brigade USAG Ft. Huachuca, Spill Site #13, ADEQ Concent Order #D10-91	Engineering and Environmental Consultants, Inc.	Dec-95
Corrective Action Program Plan Deliver Order #27, ADEQ LUST File #0299.03	Engineering and Environmental Consultants, Inc.	Dec-95
Site Characterization Report Building # 61801, Greely Hall, ADEQ LUST File 0299.03 Ft. Huachuca Army Post, ADEQ LUST File # 4715.2289	Engineering and Environmental Consultants, Inc.	Jan-96
Leachate Report for South Range Landfill, Ft. Huachuca	International Technology Corporation	Feb-96
Site Characterization Report CEWI Motor Pool, Bldg 30113, Ft. Huachuca Army Post, ADEQ LUST File # 4178.01	Engineering and Environmental Consultants, Inc.	Mar-96
Report on Soil Boring at East Range Open Burning Open Detonation Site, East Range of Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Mar-96
Proposed Phase 2 Investigation program Open Burning/ Open Detonation Units West Range and East Range (Sites 1,2,3) Ft. Huachuca	Basin and Range Hydrogeologists, Inc.	Aug-96
Soil Sampling and Analysis Investigation Open Burning/ Open Detonation Units South, East, and West Ranges, Ft. Huachuca	Basin and Range Hydrogeologists, Inc.	Jun-97
Site Characterization Report UST Spill Site #8, Contingency Tank, Ft. Huachuca, ADEQ LUST file #0155.15	Environmental Engineering Consultants	Jun-97
Report Request for Closure Ft. Huachuca's South Range Asbestos Landfill, USAG Ft. Huachuca	Environmental Engineering Consultants	Jun-97
Report on Site Characterization Investigation at Ft. Huachuca AAFES PX Former Service Station, Bldg. #31209, ADEQ LUST file #s 0155.45, 0155.46, 0155.47	Environmental Engineering Consultants	Jun-97

Previous Studies

Title	Author	Date
Report on Site Characterization Investigation at Ft. Huachuca AAFES PX Former Service Station, Bldg. #31209, ADEQ LUST file #s 0155.45, 0155.46, 0155.47	Environmental Engineering Consultants	Jun-97
Report on Initial Site Characterization Investigation at Antenna Test Facility Bldg 15680, USAG Ft. Huachuca	Environmental Engineering Consultants	Dec-97
Report on Groundwater Investigation at Former Location of Gasoline Product Line, AAFES PX Service Station Bldg # 31210 & 31209, Ft. Huachuca	Environmental Engineering Consultants	Jul-98
Closure Plan Open Burning/Open Detonation Units South, East and West Ranges, Ft. Huachuca	Basin and Range Hydrogeologists, Inc.	Sep-98
Groundwater Monitoring Quarterly Report, AAFES Service Station, Air Sparging System Area, USAG Ft. Huachuca	Environmental Engineering Consultants	Sep-98
Remedial Action Plan at Bldg 61801 Greely Hall, USAG Ft. Huachuca, ADEQ LUST file #0155.06	Environmental Engineering Consultants	Oct-98
Corrective Action Plan Amendment AAFES PX Service Station USAG Ft. Huachuca	Environmental Engineering Consultants	Oct-98
Report on Demolition of Concrete Pads, the Removal of Three Hydraulic Lifts and one Oil Water Separator at the Former AAFES PX Service Station, Bldg 31210, Ft. Huachuca	Environmental Engineering Consultants	Nov-98
Report on Site Characterization Investigation Libby Army Airfield USAG Ft. Huachuca	Environmental Engineering Consultants	Nov-98
Report on Remediation of Petroleum Contaminated Soil at the Antenna Test Facility Bldg 15680	Environmental Engineering Consultants	Dec-98
Groundwater Monitoring Report, East Range Mine Shaft USAG Ft. Huachuca	Environmental Engineering Consultants	Dec-98
Groundwater Monitoring Quarterly Report, AAFES Service Station, USAG Ft. Huachuca, ADEQ LUST file 0155.01	Environmental Engineering Consultants	Dec-98
Report on Remediation of Petroleum Contaminated Soil at the Antenna Test Facility Bldg 15680	Environmental Engineering Consultants	Dec-98
Groundwater Monitoring Report, East Range Mine Shaft USAG Ft. Huachuca	Environmental Engineering Consultants	Dec-98
Groundwater Monitoring Quarterly Report, AAFES Service Station, USAG Ft. Huachuca, ADEQ LUST file 0155.01	Environmental Engineering Consultants	Dec-98
Leachate Monitoring Quarterly Report, South Range Landfill USAG Ft. Huachuca	Environmental Engineering Consultants	Dec-98
Groundwater Monitoring Quarterly Report, AAFES Service Station, USAG Ft. Huachuca	Environmental Engineering Consultants	Sep-99
Soil Vapor Extraction Pilot Test; Greely Hall, USAG Ft. Huachuca	Environmental Engineering Consultants	Sep-99
Report on Installation and Sampling of Groundwater Monitoring Well; South Range Landfill, USAG Ft. Huachuca	Environmental Engineering Consultants	Oct-99
Report on Site Characterization Investigation at Ft. Huachuca AAFES PX Former Service Station, Bldg. #31209, ADEQ LUST file #s 0155.45, 0155.46, 0155.47	Environmental Engineering Consultants	Jun-97
Report on Amendment of Corrective Action Plan AAFES PX Service Station USAG Ft. Huachuca	Environmental Engineering Consultants	Mar-00

Previous Studies

Title	Author	Date
Groundwater Monitoring Quarterly Report, AAFES Service Station, USAG Ft. Huachuca	Environmental Engineering Consultants	Mar-00
Groundwater Monitoring Quarterly Report, East Range Mine Shaft, USAG Ft. Huachuca	Environmental Engineering Consultants	Mar-00
Leachate and Groundwater Monitoring Quarterly Report, South Range Landfill, USAG Ft. Huachuca	Environmental Engineering Consultants	Mar-00
Report on Respiration Study Greely Hall Bldg 61801, Ft. Huachuca Army Post	Environmental Engineering Consultants	Apr-00
Leachate and Groundwater Monitoring Quarterly Report, South Range Landfill, USAG Ft. Huachuca	Environmental Engineering Consultants	Jul-00
Fort Huachuca Installation Restoration Program No Further Action Decision Document to Support Closure of Sties FTHU-64, FTHU-68, FTHU-69, FTHU-70, FTHU-74, and FTHU-41 & 75, USAG Ft. Huachuca	Environmental Engineering Consultants	Aug-00
Air Quality Monitoring Report for Soil Vapor Extraction System, Bldg 61801 (Greely Hall), USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Environmental Engineering Consultants	Oct-00
Groundwater Monitoring Quarterly Report, East Range Mine Shaft, USAG Ft. Huachuca	Environmental Engineering Consultants	Oct-00
Groundwater Monitoring Quarterly Report, AAFES Service Station, USAG Ft. Huachuca	Environmental Engineering Consultants	Oct-00
Leachate and Groundwater Monitoring Quarterly Report, Site FTHU-10, South Range Landfill, USAG Ft. Huachuca	Environmental Engineering Consultants	Oct-00
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Environmental Engineering Consultants	Dec-00
Report on Cap Installation, East Range Mine Shaft, USAG Ft. Huachuca	Environmental Engineering Consultants	Dec-00
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Environmental Engineering Consultants	Jan-01
Groundwater Monitoring Quarterly Report, East Range Mine Shaft, USAG Ft. Huachuca	Environmental Engineering Consultants	Jan-01
Groundwater Monitoring Quarterly Report, AAFES Service Station, USAG Ft. Huachuca	Environmental Engineering Consultants	Jan-01
Leachate and Groundwater Monitoring Quarterly Report, Site FTHU-10, South Range Landfill, USAG Ft. Huachuca	Environmental Engineering Consultants	Feb-01
Report on Installation of Groundwater Monitoring Wells, Site FTHU 10, South Range Landfill, USAG Ft. Huachuca	Environmental Engineering Consultants	May-01
Leachate and Groundwater Monitoring Quarterly Report, Site FTHU-10, South Range Landfill, USAG Ft. Huachuca	Environmental Engineering Consultants	May-01
Report on Respiration Study Greely Hall Bldg 61801, Ft. Huachuca Army Post	Environmental Engineering Consultants	Jun-01
Groundwater Monitoring Quarterly Report, AAFES Service Station, USAG Ft. Huachuca	Environmental Engineering Consultants	Jul-01
Groundwater Monitoring Quarterly Report, East Range Mine Shaft, USAG Ft. Huachuca	Environmental Engineering Consultants	Jul-01
Leachate and Groundwater Monitoring Quarterly Report, Site FTHU-10, South Range Landville, USAG Ft. Huachuca	Environmental Engineering Consultants	Jul-01

Previous Studies

Title	Author	Date
Monthly Air Quality Monitoring Report, Soil Vapor Extraction Syste, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Environmental Engineering Consultants	Aug-01
Monthly Air Quality Monitoring Report, Soil Vapor Extraction Syste, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Environmental Engineering Consultants	Sep-01
Monthly Air Quality Monitoring Report, Soil Vapor Extraction Syste, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Environmental Engineering Consultants	Oct-01
Monthly Air Quality Monitoring Report, Soil Vapor Extraction Syste, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Environmental Engineering Consultants	Nov-01
Leachate and Groundwater Monitoring Quarterly Report, Site FTHU-10, South Range Landville, USAG Ft. Huachuca	Environmental Engineering Consultants	Nov-01
Monthly Air Quality Monitoring Report, Soil Vapor Extraction Syste, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Environmental Engineering Consultants	Dec-01
Monthly Air Quality Monitoring Report, Soil Vapor Extraction Syste, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Engineering and Environmental Consultants, Inc.	Jan-02
Fort Huachuca Installation Restoration Program No Further Action Deecision Document to Support Closure of Sties FTHU-52,, FTHU-66, FTHU-67 and FTHU-73, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Jan-02
Monthly Air Quality Monitoring Report, Soil Vapor Extraction Syste, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Engineering and Environmental Consultants, Inc.	Feb-02
Groundwater Monitoring Quarterly Report, AAFES Service Station, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Feb-02
Groundwater Monitoring Quarterly Report, East Range Mine Shaft, USAG Ft. Huachuca	Environmental Engineering Consultants, Inc.	Mar-02
Monthly Air Quality Monitoring Report, Soil Vapor Extraction Syste, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Engineering and Environmental Consultants, Inc.	Mar-02
Leachate and Groundwater Monitoring Quarterly Report, Site FTHU-10, South Range Landville, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Mar-02
Monthly Air Quality Monitoring Report, Soil Vapor Extraction Syste, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Engineering and Environmental Consultants, Inc.	Apr-02
Installation of Groundwater Monitoring Well, SRLF MW-4 at Site FTHU-10, South Range Landfill, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	May-02
Monthly Air Quality Monitoring Report, Soil Vapor Extraction Syste, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Engineering and Environmental Consultants, Inc.	May-02
Monthly Air Quality Monitoring Report, Soil Vapor Extraction Syste, Bldg 61801 (Greely Hall) USAG Ft. Huachuca, ADEQ Air Quality Permit 1001046	Engineering and Environmental Consultants, Inc.	Jun-02

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Title	Author	Date
Report on Respiration Study Bioremediation of Diesel Release at Bldg 61801 (Greely Hall) USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Jun-02
Leachate and Groundwater Monitoring Quarterly Report, Site FTHU-10, South Range Landfill, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Jun-02
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Jul-02
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Aug-02
Groundwater Monitoring Quarterly Report, AAFES Service Station, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Sep-02
Groundwater Monitoring Quarterly Report, East Range Mine Shaft, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Sep-02
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Oct-02
Leachate and Groundwater Monitoring Quarterly Report, Site FTHU-10, South Range Landfill, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Oct-02
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Nov-02
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Dec-02
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Dec-02
Leachate and Groundwater Monitoring Quarterly Report, Site FTHU-10, South Range Landfill, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Jan-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Jan-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Feb-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Mar-03
Confirmation Soil Sampling Report for Bioremediation Project at Bldg 61801 (Greely Hall) USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Mar-03
Confirmation Soil Sampling Report for Soil Vapor Extraction System Project at Bldg 61801 (Greely Hall) USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Mar-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	Apr-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc.	May-03

Previous Studies

Title	Author	Date
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Jun-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Jul-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Aug-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Sep-03
Groundwater Monitoring Report, AAFES Service Station, USAG Fort Huachuca	Engineering and Environmental Consultants, Inc.	Sep-03
Groundwater Monitoring Report, East Range Mine Shaft, USAG Fort Huachuca	Engineering and Environmental Consultants, Inc.	Sep-03
Leachate and Groundwater Monitoring Quarterly Report, Site FTHU-10, South Range Landfill, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Oct-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Oct-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Nov-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Dec-03
Leachate and Groundwater Monitoring Semi-Annual Report, Site FTHU-10, South Range Landfill, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Dec-03
Well Installation and Abandonment Report: Pantano Interface Monitoring Well MW-5, South Range Landfill, Ft. Huachuca Army Garrison	Engineering and Environmental Consultants, Inc	Dec-03
Groundwater Monitoring Report, AAFES Service Station, USAG Fort Huachuca	Engineering and Environmental Consultants, Inc	Dec-03
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Jan-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Feb-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Mar-04
Groundwater Sampling Report, East Range Mine Shaft, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Mar-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Mar-04

Previous Studies

Title	Author	Date
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Apr-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	May-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Jun-04
Groundwater Monitoring Report, AAFES Service Station, USAG Fort Huachuca	Engineering and Environmental Consultants, Inc	Jun-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Jul-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Aug-04
Fort Huachuca IRP Decision Document in Support of the Change of Status for Site FTHU-65, USAG Fort Huachuca , AZ	Engineering and Environmental Consultants, Inc	Aug-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Sep-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Oct-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Nov-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Dec-04
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Jan-05
Groundwater Sampling Report, East Range Mine Shaft, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Jan-05
Leachate and Groundwater Monitoring Semi-Annual Report, Site FTHU-10, South Range Landfill, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Jan-05
Groundwater Monitoring Report, AAFES Service Station, USAG Fort Huachuca	Engineering and Environmental Consultants, Inc	Jan-05
Monthly Air Quality Monitoring Report, Soil Vapor Extraction System, Bldg 61801 (Greely Hall), ADEQ Air Quality Permit 1001046, USAG Ft. Huachuca	Engineering and Environmental Consultants, Inc	Feb-05

this location. A groundwater monitoring well was installed to the regional aquifer in 1999 to determine if groundwater beneath the landfill is contaminated. Groundwater monitoring is continuing. The leachate wells currently show no contamination above HBGL. Two regional groundwater monitoring wells were installed in January 2001 to define the direction of groundwater flow. Another groundwater monitoring well was installed in April 2002, at ADEQ's request due to failure to determine groundwater flow from wells installed in 2001. In March 2004, the ADEQ requested continued semi-annual monitoring of the wells until 2006, then re-evaluate site.

The ADEQ required groundwater monitoring at FTHU-65, East Range Mine Shaft. The shaft was reportedly used for disposal of trash and garbage, petroleum products (sometimes burned), small aircraft/drone bodies and UXO. Three monitoring wells were installed. To date no contaminants above action levels have been encountered in the wells. Groundwater monitoring continues at the site. A cap was installed in November 2000 to prevent surface water infiltration into the shaft. In March 2004, the ADEQ requested a Decision Document with provisions for 5 year reviews.

In March 1999, ADEQ submitted a review of Fort Huachuca's Site Summary Report. The following sites required no further action by ADEQ; FTHU-41, 75, 64, 68, 73, and 74. The following sites required further action by ADEQ; FTHU-10, 52, 65, 66, 69, and 70. In April 2000, a different ADEQ reviewer submitted another review of the same Fort Huachuca Site Summary Report. The following sites required no further action by ADEQ; FTHU-41, 75, 64, 68, 69, 70, and 74. To close these sites ADEQ requested that Fort Huachuca prepare a decision document. The following sites required further action by ADEQ; FTHU-10, 52, 65, 66, and 73. Not addressed was site FTHU-67.

A decision document was submitted to ADEQ for official closure of the 'no further action sites'. A letter from the ADEQ dated December 15, 2000, FPU 057, notified the installation that sites FTHU-41, 75, 64, 68, 69, 70, and 74 were officially closed as no further action (NFA) sites. The state based this decision on a review of the "No Further Action Decision Document" dated August 18, 2000, signed by Fort Huachuca and ADEQ representatives.

Additional sampling was conducted in 2000 at the Golf Course Pesticide Mix Area, FTHU-73 and at the Vehicle Paint Booth Site, FTHU-66. The results of the site investigations showed no detectable arsenic at FTHU-73 and concentrations below the remediation limit at FTHU-66. Also in 2000, the installation conducted soil sampling at the LAAF Fire Fighting Training Area, FTHU-52, to adequately define the vertical and horizontal extent of contamination. In October 2001 soil sampling and minor soil remediation (removal) was conducted. In January 2002, a "No Further Action Decision Document" was submitted to the state requesting closure of sites FTHU-52, 66, 67, and 73. A letter from ADEQ, FPU 02-104, dated March 14, 2002, notified the installation that the four sites were officially closed out as NFA sites.

CLEAN UP EXIT STRATEGY:

Of the five remaining sites at the Fort, 2 are in remediation and 3 are in long term management. The strategy is to move the RAO sites to LTM as rapidly as the technology allows and is economically feasible, and to exit the long term management phase in a way that satisfies Arizona regulators and fulfills the spirit and intent of applicable laws, at the least cost to the Army.

FORT HUACHUCA

INSTALLATION
RESTORATION PROGRAM
ER, A Active AEDB-R Sites

FTHU-10

SOUTH RANGE LANDFILL (OLD LANDFILLS 6 AND 7)

SITE DESCRIPTION

The landfill is located approximately two miles southeast of the main Post facilities. The landfill is approximate 100 acres in size. FTHU-10, consists of two adjacent landfills that were used intermittently from 1940 to 1975 for the disposal of domestic trash and unknown quantities of herbicides, pesticides, and sodium arsenite. The landfills have been out of service and were capped with native material in 1975. Native vegetation (grass, agave cactus, and oak trees) grows on the cap.

Contamination above Aquifer Water Quality Standards (AWQS) was encountered in leachate samples taken from this location. Dieldrin 0.13 ug/l and pp'DDD 0.16 ug/l, lead 0.26 ug/l. A groundwater monitoring well was installed to the regional aquifer to determine if the landfill has contaminated the groundwater beneath the landfill (~350 bgs.).

At the state's request, sampling for the thirteen priority pollutant metals is being performed at all wells, since both antimony and thallium have been detected below the AQWS in some samples from the regional well. Two additional groundwater monitoring wells were installed in January 2001, at the request of ADEQ, to define the direction of groundwater flow.

One additional groundwater monitoring well was installed in April 2002, at the request of the state, because of failure to determine groundwater flow direction from the wells installed in 2001. At the request of ADEQ in FY03, an exploratory boring was placed in lieu of original two wells requested. Exploratory boring and concurrent geophysical survey revealed no existence of suspected confining layer. In FPU-04-153 letter, dated 25 Mar 04, from ADEQ requests continued semi-annual monitoring of wells MW-1, 2 and 3 (and 2 leachate wells) until 2006, after which, re-evaluate to determine if the site qualifies for 5 years reviews or annual monitoring for 5 additional years and then 5 year reviews. Groundwater monitoring is continuing at this location and the existing leachate wells presently show no contamination above AWQS at all locations.

CLEANUP STRATEGY

Sample five wells semi-annually through 2006, then annually 2007-2011. Re-evaluate in 2011 to determine if the site qualifies for 5 years reviews or must return to annual monitoring for 5 additional years.

STATUS

RRSE RATING:

Low Risk

CONTAMINANTS:

Pesticide, Heavy Metals

MEDIA OF CONCERN:

Groundwater

<u>PHASES</u>	<u>START</u>	<u>END</u>
PA/SI.....	199203	199404
SI.....	199203	199404
RI	199203	200105
LTM	200106	202109

RC: 200105

FTHU-54A PX GAS STATION

SITE DESCRIPTION

FTHU-54A, is located near the northwest corner of the main post facilities. The site is approximately two acres in size and included a series of underground fuel tanks and typical gasoline-dispensing facilities. Former UST systems at the site included seven 10,000 gallon steel USTs and four 10,000 fiberglass USTs used for gasoline storage which have been removed. Fuel loss from some of the USTs was first reported in late 1982. Subsequently, tank removals began in 1983, and installations of new tanks occurred during the period of 1983 through 1996. The facility was closed in mid-1996. All site USTs and associated lines were removed in 1997. The surrounding soil was excavated and thermally treated by the COE.

The major area of concern is approximately 1,000 gallons of unleaded gasoline which leaked from a UST. Elevated levels of MTBE have been encountered at site. The highest level of MTBE detected was 18,700 ug/l. The ADEQ has assigned LUST files to these releases. Of special concern is a shallow, perched water table located at a depth of approx. 10 to 14 feet below the ground surface. An air sparging system was installed in May/June 1994 to remediate contaminated perched aquifer. There have been three other LUST files assigned to this location for releases not associated with the two being investigated through the Installation Restoration Program.

In November 1999 Oxygen Release Compounds (ORCs) were introduced. Subsequent monitoring rounds have shown a significant reduction of MTBE. Recent MTBE levels are below 1000 ug/l, but are above the currently proposed standard.

CLEANUP STRATEGY

Continue operation of air sparging system and groundwater monitoring until groundwater cleanup is achieved (~3 years.) The current state suggested standard for MTBE is 35ug/l.

STATUS

RRSE RATING: High Risk

CONTAMINANTS: MTBE

MEDIA OF CONCERN:
Groundwater

<u>PHASE</u>	<u>START</u>	<u>END</u>
PA	199003	199205
SI	199003	199205
RI	199207	199302
RA(C).....	199401	199405
RA(O)	199406	200809

RC expected: 200809

FTHU-65

EAST RANGE MINE SHAFT

SITE DESCRIPTION

FTHU-65, is located on the remote East Range. Information concerning the shaft indicated that it had been used for disposal of a variety of wastes including simple trash and garbage, petroleum products (sometimes burned), small aircraft/drone bodies and possibly UXO since the 1940's. In August 1989 the site included the remains of a small earthen berm partially surrounding a depression in the soil above a vertical mine shaft. By November 1989 a portion of the depression had settled or collapsed. By early February 1990 the Post had re-filled the depression/hole with earth to minimize surface water entry and added a fence around the shaft. The mine shaft is reported to be ~200 feet deep. The aquifer is ~275 feet bgs. The potential for a direct pathway to have existed between possible contaminants and the groundwater was of special concern, especially if surface water entering at the top of the shaft could have provided additional "driving" force. The installation has monitored three groundwater wells from 1992-2004 at the site; to date no contaminates above action levels have been encountered in the wells.

At the request of ADEQ, a cap was installed in November 2000 to prevent rain and surface water from infiltrating into the filled mine shaft. In a December 2002 letter, ADEQ requested monitoring and sampling of all three wells on an annual basis instead of semi-annually monitoring one well. The requirement for sampling all three wells is to help reduce concern about future aquifer contamination.

In 1996, lead was detected in the up-gradient well. ADEQ requested that the three wells be sampled for VOCs, hydrocarbons, and metals. None were detected. As an additional request of ADEQ, the three wells were sampled for explosives (none detected) in Feb 2004. In March 04, ADEQ requested a Decision Document be prepared and conduct 5 year reviews. The Decision Document was prepared and found acceptable to ADEQ. Five year reviews are now in progress.

CLEANUP STRATEGY

Conduct 5 year reviews in FY09 and FY14 (sampling and reporting). Review with the ADEQ in 2015 to determine if the site can be closed.

STATUS

RRSE RATING: Low Risk

CONTAMINANTS: VOCs, Hydrocarbons, Lead, Explosive Residues

MEDIA OF CONCERN:
Groundwater, Soil

<u>PHASE</u>	<u>START</u>	<u>END</u>
PA.....	199003.....	199111
SI.....	199003.....	199111
RI.....	199003.....	199111
LTM	199301.....	201512
RC: 199212		

FTHU-85 UST RELEASE SITE GREELY HALL (BLDG. 61801)

SITE DESCRIPTION

This site is located at the rear southern service area of Greely Hall Building 61801. Greely Hall was built in 1959 and included fuel storage and dispensing from underground storage tanks located in the rear service area. FTHU-85, is associated with a release of diesel fuel from an underground storage tank that provided fuel to emergency generators. The diesel release was associated with the distribution system connecting the tank to the emergency generators. Although the system piping was known to leak during the period of use, the extent of the leak was confirmed in September 1990. From the size and disposition, the release had been ongoing for at least a decade before its discovery. The ADEQ required the installation to perform site investigation on LUST Files 0155.05 and 0155.06. The extent of the impacted soil was less than 95 feet deep and 50 feet wide. The regional groundwater at the site is estimated at approximately 400 feet to 450 feet below the land surface.

CLEANUP STRATEGY

Bioremediation (Bio-venting) to continue until soil cleanup standards is achieved. It is anticipated cleanup standards will be achieved in 2008 and will include confirmatory soil sampling and system closure.

STATUS

RRSE RATING: Low Risk

CONTAMINANTS:

Hydrocarbons, PAHs

MEDIA OF CONCERN:

Soil

<u>PHASE</u>	<u>START</u>	<u>END</u>
ISC	199403.....	199411
INV.....	199412.....	199506
CAP.....	199507.....	199508
IMP(C)	199509.....	199812
IMP(O)	199608.....	200809

RC expected: 200809

The site was characterized and a bio-venting system was installed in 1997 to remediate the site. The diesel release is reacting positively to bioremediation. Initial sampling showed 56,900 ppm, and two borings were placed and sampled in Jan 2003, and showed 19,700 ppm and the SRLr is 4,100 ppm (TPH).

FTHU-90

GREELY HALL GASOLINE RELEASE

SITE DESCRIPTION

This site is located at the rear southern service area of Greely Hall Building 61801. Greely Hall was built in 1959. A gasoline generator and associated UST provided emergency power for the communication center. FTHU-90 is associated with a release of gasoline from an underground storage tank that provided fuel to emergency generators. The generator was removed during the 1970s. In 1995, the storage tank was removed, at which time the contaminant plume from years of gasoline spillage from overfilling the generators was discovered. The extent of impacted soil is less than 65 feet deep and less than 70 feet in diameter. In April of 1998, the site was assessed, and 65 ppm of benzene was detected at 30 feet bgs. The gasoline system had initially been installed in the 1970s to support computer operations at this facility. A Corrective Action Plan was prepared for the gasoline release. In August of 1999, a SVE pilot test was conducted to assist in obtaining an Air Quality Permit for ADEQ.

The SVE system was installed and started on July 31, 2000 at this location to reduce levels of benzene that exceed state soil clean up levels. In January of 2003, soil borings and sampling was conducted. Benzene was detected above the SRLr (0.62ppm) from 20 to 30 feet bgs, with the highest concentration of 22 ppm of benzene at 20 feet bgs. Soil vapor extraction well was grouted from a depth of 60 feet to the 30 foot deep level to facilitate remediation at the depth where contamination concentrations remain above SRLr.

CLEANUP STRATEGY

Soil Vapor Extraction to continue until cleanup is achieved. Drill. It is anticipated cleanup standards will be achieved in 2008 and will include confirmatory soil sampling and system closure.

STATUS

RRSE RATING: Low Risk

CONTAMINANTS:

Benzene

MEDIA OF CONCERN:

Soil

<u>PHASE</u>	<u>START</u>	<u>END</u>
ISC	199506	199507
INV	199804	199805
CAP	199810	199906
DES	199910	199912
IMP(C)	200001	200008
IMP(O)	200009	200809
RC expected: 200810		

Response Complete Sites

AEDB-R Number	AEDB-R Title	RC Date
FTHU-01	Radiation Source Storage Bldg. 12508	30-Jun-80
FTHU-02	Abandoned T, Bldg. 90322 and Sludge Beds	30-Jun-80
FTHU-05	Landfill 1-1930-1945	30-Apr-88
FTHU-06	Landfill 2- 1945-1950	30-Apr-88
FTHU-07	Landfill 3- 1976-79	30-Apr-88
FTHU-08	Landfill 4 - 1939-75 (A)	30-Apr-88
FTHU-09	Landfill 5- 1939-75 (B)	30-Apr-88
FTHU-12	Landfill 8- 1939-1970	30-Apr-88
FTHU-13	Landfill 9- 1903-39	30-Apr-88
FTHU-17	East Range OB/OD Area	31-Jan-01
FTHU-18	South Range OB/OD Area	31-Jan-01
FTHU-30	Building 72909 Wood Shop	30-Jun-80
FTHU-31	Building 72908 Weld Shop	30-Jun-80
FTHU-32	Building 72908 Machine and Spray Paint Shop	30-Jun-80
FTHU-33	Munitions Repair Building 73902	30-Jun-80
FTHU-34	Building 73903 Painting	30-Jun-80
FTHU-36	Building 75902 Tire Repair	30-Jun-80
FTHU-37	Building 75901 Motor Pool	30-Jun-80
FTHU-38	Building 51419 Vehicle Maintenance	30-Jun-80
FTHU-39	Building 30013 Motor Pool	30-Jun-80
FTHU-40	Building 30115 Motor Pool LUST File 0155.13	30-Jun-80
FTHU-41	Building 75801 Motor Pool	30-Jun-80
FTHU-42	Building 74902 Vehicle Paint Shop	30-Jun-80
FTHU-43	Building 91110 Aviation Maintenance	30-Jun-80
FTHU-44	Building 90201 Post Laundry	30-Jun-86
FTHU-51	POL Storage, Libby AAF LUST File	31-Aug-99
FTHU-52	Fire Fighting Training Area, Libby AAF	31-Mar-02
FTHU-53	Military Gas Station LUST Field 0155.05	30-Sep-97
FTHU-54	Post Electrical Shop	30-Jun-80
FTHU-55	Building 73904 Battery Shop	30-Apr-88
FTHU-57	Aircraft Wash Rack, Libby AAF	31-Oct-96
FTHU-61	Impact Area-East Range	30-Jun-80
FTHU-62	Impact Area- South Range	30-Jun-80
FTHU-64	Tank Trails Dump Site (6)	30-Jun-97
FTHU-66	Vehicle Paint Booth Building 72907	31-Aug-01
FTHU-67	TMP Drum Storage Area	31-Mar-02
FTHU-68	TMP Automatic Wash Rack Building 76925	30-Jun-95
FTHU-69	TMP Aboveground Waste Tank Site	31-Dec-00
FTHU-70	TMP Steam Cleaning Facility	31-Dec-00

Response Complete Sites

AEDB-R Number	AEDB-R Title	RC Date
FTHU-71	Old 11th Signal BDE Motor Pool Wash Rack Discharge Area	31-May-95
FTHU-72	11th Signal Motor Pool Spill Sites	30-Nov-95
FTHU-73	Golf Course Pesticide Mix Area	31-Mar-02
FTHU-74	Building 35033 Pesticide Mix Area	31-Aug-93
FTHU-75	AMSA Wash Rack Discharge	31-Aug-99
FTHU-76	UST Site 4715-0980 Old Boiler Site #1	31-Jul-96
FTHU-77	UST Site 4715-1192 Site #2 Clarkson St	30-Sep-96
FTHU-78	UST Site 4715-1185 CEWI Motor Pool	28-Feb-98
FTHU-79	UST Site 4715-0716 (11th SB) 0155.08	28-Feb-99
FTHU-80	UST Site 4715-1191 UST Removal Site #6	31-Dec-97
FTHU-81	UST Site 4715-1190 Site 7 Old Fuel Pit	30-Sep-98
FTHU-82	UST Site 4715-1189 Site 8 Diesel UST	31-Oct-97
FTHU-83	UST Site 4715-1188 Hospital UST Burn	28-Feb-93
FTHU-84	UST Site 4715-1187 Site 10 EPG 0155.13	31-Aug-97
FTHU-86	Abandoned Pipeline Irwin St Release Site	31-Dec-98
FTHU-87	Old Autocraft Shop Building 30126 Release	31-Jan-96
FTHU-88	Building 30113 Waste Oil Tank LUST #0155.39	30-Sep-96
FTHU-89	West Range OB/OD Disposal Unit	31-Aug-99

PAST MILESTONES**IRP PHASE**

Advice of Authorization, Group A
Advice of Authorization, Group B
RI GROUP A Final Report
RI GROUP B Final Report
PA/SI/UST Contract Initiated, Group C
Final PA/SI/UST Report, Group C
FS Group A
FS Group B
PA/SI Group C
RI/FS Group C
RD/RA Group A
RD/RA Group B
RA FTHU-83 Site #9 UST Release
RI FTHU-51 Libby Army Air Field POL Storage Facility
RI FTHU-54 A AAFES Service Station
RI FTHU-79 11th Signal Brigade Fuel Station
RI FTHU-81 Old Post Fuel Station
RI FTHU-86 Abandoned Pipeline
RA(C) FTHU-85 UST Release Site Greely Hall
RI/FS FTHU-89 West Range OB/OD Area
RA(C) FTHU-90 UST Release Site Greely Hall
RI FTHU-69 TMP Above ground Waste Tank Site
RI FTHU-70 TMP Steam Cleaning Facility
RA(C) FTHU-17 East Range OB/OD Area
RA(C) FTHU-18 South Range OB/OD Area
RD FTHU-52 Fire Fighting Training Area
RI/FS FTHU-67 TMP Drum Storage Area
RI/FS FTHU-73 Golf Course Pesticide Mix Area

COMPLETION DATE

May 21, 1989
July 12, 1990
May 22, 1992
February 18, 1993
June 28, 1991
May 10, 1993
June 1994
June 1994
June 1994
Sept 1995
Sept 1996
Sept 1996
Nov 1997
Sept 1998
June 1998
Sept 1998
July 1998
July 1998
Dec 1998
Aug 1999
Aug 2000
Dec 2000
Dec 2000
Jan 2001
Jan 2001
Aug 2001
Mar 2002
Mar 2002

Schedule

PROJECTED MILESTONES

RA(O) FTHU-85, Greely Hall UST Diesel Release	Completion	Sep 2008
RA(O) FTHU-54A, PX Gas Station	Completion	Sep 2008
RA(O) FTHU-90, Greely Hall UST Gasoline Release	Completion	Sep 2008
LTM FTHU-10, South Range Landfill	Completion	Sep 2021
LTM FTHU-65, East Range Mine Shaft	Completion	Sep 2015

Projected ROD/DD Approval Dates:

FTHU-85, Greely Hall UST Diesel Release	Jul 2008
FTHU-54A, PX Gas Station	Jul 2008
FTHU-90, Greely Hall UST Gasoline Release	Jul 2008
FTHU-10, South Range Landfill	Jul 2021
FTHU-65, East Range Mine Shaft	Jul 2015

Estimated Completion Date of all RA(C) Activities: October 2009

Estimated Completion Date of IRP (including LTM phase): October 2021

Fort Huachuca IRP Schedule

(Based on current funding constraints)

AEDB-R Site	Phase	FY06	FY07	FY08	FY09	FY09	FY10	FY11	FY12	FY13	FY14	FY15+
FTHU-10	LTM											
FTHU-54A	RAO											
FTHU-65	LTM											
FTHU-85	IMP(O)											
FTHU-90	IMP(O)											

PRIOR YEAR FUNDING

FY89	RI, Group A Miscellaneous Sites	963,741
	RI/SA, Group A Sites	34,189
	Total FY89	\$997,930
FY90	RI/SA, Group A Sites	58,000
	RI/SA, Group B - Tank Trails Disposal Sites	5,000
	SI/SA, Group C, UST and Miscellaneous Sites	16,755
	Total FY90	\$79,755
FY91	RI, Group A Sites	157,890
	RI/SA, Group A Sites	58,123
	FS/SA, Group A Sites, Scoping	2,607
	RI, Group B Sites	413,140
	RI/SA, Group B Sites	31,850
	PA/SI, Group C Sites	669,113
	SI/SA, Group C Sites	31,535
	Total FY 91	\$1,364,258
FY92	RI, Group A Sites	200,778
	FI/SA, Group A Sites	107,109
	FS/SA, Group A Sites	12,138
	RI/SA, Group B Sites	6,025
	FS/SA Group B Sites	30,911
	FS/SA, Group B Sites	185
	PA/SI, Group C Sites	32,796
	SI/SA, Group C Sites	37,912
	Total FY92	\$427,854
FY93	RA, Group A (Air Sparging System)	730,421
	RI/SA, Group B	6,007
	FS, Group B	33,200
	SI/SA, Group C	21,900
	RI/FS, Group C Scoping	15,000
	FI/SA, Group C	30,000
	RI/FS, Group C	785,083
	Total FY93	\$1,621,611
FY94	REM, Group A (Omaha Rapid Response)	20,000
	M, Group A	260,000
	M/S/A, Group A	26,000
	RI/SA, Group C	60,000
	Total FY94	\$366,000

FY95	PY S&A, Group C	15,000
	IRP Groundwater Monitoring IRP Sites	333,000
	Total FY95	\$348,000
FY96	PX Service Station LTM FTHU-54A	80,000
	Total FY96	\$80,000
FY97	PX Service Station, LTM FTHU-54A	80,000
	Abandoned Pipeline, RI/FS FTHU-86	78,000
	South Range Landfill & East Range Mine Shaft LTM FTHU-10	42,000
	Hospital Tank Site #9 FTHU-83 RA	91,000
	Total FY97	\$291,000
FY98	PX Service Station, LTM FTHU-54A	62,000
	Abandoned Pipeline, RI/FS FTHU-86	150,000
	South Range Landfill and East Range Mine Shaft LTM FTHU-10	61,000
	Total FY98	\$273,000
FY99	PX Service Station, LTM FTHU-54A	65,000
	Soil Vapor Extraction System LUST File 0155.06 FTHU-85 *	50,000
	South Range Landfill LTM FTHU-10	30,000
	East Range Mineshaft LTM FTHU-65	45,000
	Greely Hall RAO FTHU-85	70,000
	Total FY99	\$260,000
FY00	PX Service Station, LTM FTHU-54A	18,221
	South Range Landfill LTM FTHU-10	41,139
	Fire Fighting Training Area, Libby AAF RI/FS FTHU-52	86,714
	Bioventing System LUST File 0155.06 FTHU-85 *	9,933
	Soil Vapor Extraction System LUST File 0155.06 FTHU-90 *	28,067
	East Range Mineshaft LTM FTHU-65	21,678
	Vehicle Pint booth, RI/FS FTHU-66	16,613
	Motor Pool Wash Rack, RA/SI FTHU-41	1,279
	Tank Trails dump Site, RI/FS FTHU-64	1,279
	TMP Automatic Wash Rack, RA FTHU-68	1,279
	TMP Above Ground Waste Tank Site, PA/SI FTHU-69	1,279
	TMP Steam Cleaning Facility, PA/SI FTHU-70	1,279
	Golf Course Pesticide Mix Area, RI/FS FTHU-73	7,727
	Pesticide Mix Area, PA/SI FTHU-74	1,279
	AMSA Wash Rack Discharge, RI/FS FTHU-75	1,279
	Total FY00	\$239,045
FY01	PX Service Station, RAO FTHU-54A	30,608
	South Range Landfill, RI FTHU-10	138,466

FY01 continued

Fire Fighting Training Area, Libby AAF, RD FTHU-52	7,580
Fire Fighting Training Area, Libby AAF RAC FTHU-52	98,339
Bioventing System LUST File 0155.06, RAO FTHU-85	11,390
Soil Vapor Extraction System LUST File 0155.06, RAO FTHU-90	14,288
East Range Mineshaft LTM FTHU-65	15,372
TMP Drum Storage Area, RI FTHU-67	5,697
Total FY01	\$321,740

FY02	PX Service Station, RAO FTHU-54A	26,939
	South Range Landfill, RI FTHU-10	109,875
	Bioventing System LUST File 0155.06, RAO FTHU-85	10,546
	Soil Vapor Extraction System LUST File 0155.06, RAO FTHU-90	15,095
	East Range Mineshaft LTM FTHU-65	10,160
	Total FY02	\$172,615

FY03	PX Service Station, RAO FTHU-54A	27,877
	South Range Landfill, RI FTHU-10	108,377
	Bioventing System LUST File 0155.06, RAO FTHU-85	57,980
	Soil Vapor Extraction System LUST File 0155.06, RAO FTHU-90	22,338
	East Range Mineshaft LTM FTHU-65	8,143
	Total FY03	\$224,715

FY04	PX Service Station, FTHU-54A	33,674
	South Range Landfill, FTHU-10	28,815
	Bioventing System LUST File 0155.06, FTHU-85	11,568
	Soil Vapor Extraction System LUST File 0155.06, FTHU-90	16,439
	East Range Mineshaft, FTHU-65	13,408
	Total FY04	\$103,903

TOTAL PRIOR YEAR FUNDS **\$7,171,426**

CURRENT YEAR FUNDING

FY05	PX Service Station, FTHU-54A	36,233
	South Range Landfill, FTHU-10	43,663
	Bioventing System LUST File 0155.06, FTHU-85	12,739
	Soil Vapor Extraction System LUST File 0155.06, FTHU-90	18,844
	East Range Mineshaft, FTHU-65	0
	Total FY05	\$111,479

FUTURE YEAR FUNDING

TOTAL FUTURE REQUIREMENTS FROM CTC: \$655,000

TOTAL IRP PROGRAM COSTS \$7,837,905

A. Status of Community Involvement

The surrounding communities for Fort Huachuca include Sierra Vista and Huachuca City. The Arizona Department of Environmental Quality (ADEQ) is responsible for publishing Corrective Action and Closure Plans. These plans are also listed on the ADEQ's internet web site. Additionally, the ADEQ holds public meetings at the request of citizens in the surrounding communities if comments are received on the Corrective Action or Closure Plans. The ADEQ has indicated to Fort Huachuca that it is responsible by state law for managing community involvement and public hearings concerning Environmental Corrective Actions. To date the ADEQ has informed the installation that there has been no public interest expressed on any of the corrective actions or closure plan activities on the installation. A public interest survey was conducted in August 2004.

The Arizona Department of Environmental Quality is responsible for coordinating all public input into environmental corrective actions. They have informed the installation that there has been know interest expressed in any of the ongoing corrective actions presently being conducted on the Post. The Installation Commander has determined that there was not enough community interest to establish a RAB based on the lack of response from the ADEQ efforts.

B. Determining Interest In Establishing RAB

In addition to the above state involvement the installation has worked with the Fort Huachuca Public Affairs Office to determine if there is any interest from the neighboring communities in the restoration work on the installation. To date the installation has not received any comments from the community on the program. The installation is not on the National Priorities List (NPL) and does not have a large restoration program.

Fort Huachuca has not received any requests for establishing a Restoration Advisory Board (RAB) from the surrounding local communities. While a RAB has not been established by the installation, the Arizona Department of Environmental Quality is required to provide public notification of all remedial actions addressing underground storage tanks and hazardous waste remediation efforts required by the installation. This consists of notification of the community in the local papers of the type of remedial action planned for the site. Additionally, copies of the Corrective Action Plans (CAPs) are made available in the Sierra Vista Public Library for review by the public before commencing work on remediating the site. Based on a response from the public a meeting may be scheduled to address any questions or concerns the community may have on the CAP. To date there have been no public inquires on any of the remediation efforts initiated on the installation.

C. Interest in the Technical Assistance for Public Participation (TAPP) Program

The installation has three corrective action activities currently ongoing. They are an air sparging system at FTHU-54A, a bio-venting system at FTHU-85, and a vapor extraction system for the gasoline release at FTHU-90.

FORT HUACHUCA

MILITARY MUNITIONS RESPONSE PROGRAM

NUMBER OF MMRP /SITES RC: 16/0

AEDB-R SITE TYPES:

16 Small Arms Ranges

CONTAMINANTS OF CONCERN: UXO

MEDIA OF CONCERN: Groundwater, Soil

COMPLETED REM/IRA/RA: None

TOTAL ER,A FUNDING:

Prior Year Funds (up to FY04): \$ 0

Current Year (FY05): \$ 0

Future Requirements (FY06+): \$ 108,642,000

DURATION OF IRP:

Year of IRP Inception 2001

Year of RA Completion 2017

Year of IRP Completion 2047

MMRP Contamination Assessment

Army and DoD experience indicates that contamination on small arms ranges is primarily lead in soils and that remediation of these sites would primarily consist of excavation, off-site transportation, stabilization, and recycling. No MEC components would be expected at small arms ranges; therefore, they are not included in the estimate. Although the types of small arms ranges and patterns of contamination can vary, assumptions for this CTC estimate were based on the characteristics of a typical pistol and/or rifle MMRP range.

Typical dimensions and layout of an outdoor pistol and rifle range were obtained from MIL-HDBK-1027/3B (*Range Facilities and Miscellaneous Training Facilities other than Buildings*, June 1995), which provides recommended dimensions for range width, length, and impact berm design. The default suite of phases used for estimating costs for these sites includes:

MEC Phases

- Historical Records Review

MC Phases

- SI
- RI/FS
- RD
- Remediation of soil

Historical Records Review (HRR)

HRRs are not typically performed separately for each site at an installation -- one HRR is typically performed per installation. Therefore, the cost for only one HRR cost was therefore estimated per installation.

Site Inspection (SI)

All of the available RACER elements of an SI were selected as defaults. The site-specific assumptions that were required included the identification of the media to be sampled and the number of samples. The primary purpose of the SI is to confirm the presence or absence of munitions constituents. Numbers of soil samples included are shown below:

Site Inspection Surface Soil Samples

Range Size (acres)/Media	0 - 5	6-20	21- 50	51- 100	101- 200	>200
No. of Locations	10	15	20	30	45	60
No. of Samples/Location	1	1	1	1	1	1
No. Rounds	1	1	1	1	1	1

As with the HRR, the Army typically funds and performs SIs for the installation as a whole. For installations with several or very large sites, it was determined that estimating an SI cost for each

MMRP Contamination Assessment

site produced a cost in excess of the Army's experience in performing these studies. For this reason, for many installations, an SI cost was not estimated for all sites, but for a sufficient number of sites to reflect the expected cost of a facility-wide SI. At water sites, sediment was sampled instead of soil.

Remedial Investigation (RI)

All of the available RACER components of an RI were selected. The determination of the extent of contamination in all media is required in order to perform the risk assessment and evaluate remediation alternatives should they be required. It was assumed, therefore, that sampling would be performed in surface and subsurface soils. The table presents the media sampling assumptions.

Remedial Investigation Media Samples

Range Size (acres)/Media	21-50
Surface Soil	
No. of Locations	40
No. of Samples/Location	1
No. Rounds	1
Subsurface Soil	
Ave. Depth (ft.)	2
No. of Locations	40
No. of Samples/Location	3
No. Rounds	1

Remedial Action (RA)

- The RA selected for small arms ranges was the excavation of lead-contaminated soil and transportation and disposal at an off-site facility with stabilization. This requires the use of two RACER technology models, one for excavation and a second for off-site transportation and disposal. The primary cost driver and most significant unknown for estimates with these technologies are the dimensions of the excavation and the associated volume of lead-contaminated soil. Soil excavation volumes were based on site size. The assumption used is as follows: Ranges 21 – 50 Acres: 999 yd³ of contaminated soil.

CLEANUP EXIT STRATEGY: SIs will be completed to determine what further action is necessary at each site.

FORT HUACHUCA MILITARY MUNITIONS RESPONSE PROGRAM

SITE DESCRIPTIONS

FTHU-001-R-01

RANGE 18

SITE DESCRIPTION

This is a transferred range, owned by the U.S. Department of Agriculture, National Forest Service, comprising 111 acres in an undeveloped area to the southeast of the southern part of the installation. A historical map shows this range's safety fan extending offsite. Further information on the use of this range is unknown, although it was within a cluster of other small arms ranges and interviewees stated that small arms would have been used here. No remediation activities are known to have taken place at this range. This range was never owned by DoD.

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however waste removal is expected.

STATUS

RAC Score: 5

CONTAMINANTS: Explosive Waste

MEDIA OF CONCERN:
Groundwater, Soil

PHASES	Start	End
PA	200110.....	200305
SI	200410.....	200610
RI.....	201410.....	201509
RD	201510.....	201609
RA(C).....	201610.....	201709
RC expected: 201709		

1934 ARTILLERY PRACTICE FIRING AREA

SITE DESCRIPTION

This is a closed range, still owned by the U.S. Army, comprising 160 acres on the western side of the installation cantonment area. This area was used at least during one day in 1934 for artillery exercises, according to a contemporaneous newspaper article. The boundaries were estimated based on the danger zones described in that newspaper article. According to a former installation employee, pre-1900 small arms ammunition was found in the portion of this range that is now the magazine area. This area is currently partly undeveloped, and partly used for an ammunition magazine. No remediation activities are known to have taken place at this range.

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

STATUS

RAC Score: 2

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200101	200305
RI	201410	201509
RD	201510	201609
RA(C)	201610	201709
LTM	201710	204709

RC expected: 201709

FTHU-003-R-01

CHARLESTON COMBAT CITY

SITE DESCRIPTION

This is a transferred range, owned by the U.S. Bureau of Land Management, comprising 1,199 acres to the east of the installation's East Artillery Range, near the San Pedro River. This range was a ghost town used for simulated street fighting exercises between World War I and World War II. Personnel would have to seize the ghost town in training exercises. The men advanced 2,000 yards back of the artillery barrage, and came within 20 feet of machine gun fire. This area is currently undeveloped. It was assumed that the firing in this range was generally toward the west, due to the proximity of the river and other ranges. The shape of the range has been modified by the fact that what would have been the western portion of this range falls within a FUDS-designated area, which removes that land from CTT consideration. This range was never owned by DoD. No remediation activities are known to have taken place at this range.

STATUS

RAC Score: 4

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110	200305
SI.....	200410	200610
RI	201410	201509
RD	201510	201609
RA(C)	201610	201709
LTM.....	201710	203209

RC expected: 201709

The site has a number of complicating factors, to include a National Historic Register Site, is critical habitat for two endangered species (Southwest Willow Flycatcher and Huachuca Water Umbel) and is within the San Pedro Riparian National Conservation Area.

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

FTHU-004-R-01

RANGE 11

SITE DESCRIPTION

This is a transferred range, owned by the U.S. Department of Agriculture, National Forest Service, comprising 19 acres in an undeveloped area to the west of the southern part of the installation. This range was used in 1952 as an infiltration course, and in 1983 with M-70s. As of 1983, 83,331 rounds had been fired on the main range, though it is unclear how many of these rounds would have landed outside the installation boundary. Range personnel stated that because of the mountainous topography and elevated nature of this range that such deposition could not occur. However, LTC Larson stated, and provided graphic studies showing, that it is in fact possible that munitions from this range may have ended up in this location. No remediation activities are known to have taken place at this range. This range was never owned by DOD.

STATUS

RAC Score: 5

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110.....	200305
RI.....	201410.....	201509
RD	201510.....	201609
RA(C).....	201610.....	201709
LTM	201710.....	204709

RC expected: 201709

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

FTHU-005-R-01

1977 TRAINING AREA A/GOLF COURSE

SITE DESCRIPTION

This is a closed range, still owned by the U.S. Army, comprising of 180 acres in the same area that is now the installation golf course. According to the former Installation Range Officer, training exercises in this range included the use of blank ammunition, pyrotechnics, smoke, grenade and artillery simulations. According to former Range Officer, most of the munitions in this area would have been cleared up when the golf course was constructed.

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

STATUS

RAC Score: 2

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110	200305
RI	201410	201509
RD	201510	201609
RA(C)	201610	201709
LTM	201710	204709

RC expected: 201709

FTHU-006-R-01

1977 TRAINING AREA B/AEROSTAT SITE

SITE DESCRIPTION

This is a closed range, still owned by the U.S. Army, comprising 24 acres in the same area that is now the installation Aerostat (drug interdiction) Balloon site. According to the former installation Range Officer, training exercises in this range included the use of blank ammunition, pyrotechnics, smoke, grenade and artillery simulations. According to former Range Officer, most of the munitions in this area would have been cleared up when the Aerostat Balloon site was created.

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

STATUS

RAC Score: 3

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110	200305
SI.....	200410	200610
RI	201410	201509
RD	201510	201609
RA(C)	201610	201709
LTM.....	201710	204709

RC expected: 201709

FTHU-007-R-01

MINE FIELD NEAR AIRPORT

SITE DESCRIPTION

Currently, this range is owned by the U.S. Army, comprising 0.71 acres near the installation airport to the north of the cantonment area. This range is part of an undeveloped open field near the airport runways. This area was reviewed in 1987 for spent munitions. A total of six mines were found: three high-explosive landmines, the practice version of an M4 anti-tank mine, and two training mines. These mines were cleared shortly thereafter, but the Army would still not offer a certificate of clearance for this area.

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

STATUS

RAC Score: 2

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110.....	200305
SI	200410.....	200610
RI	201410.....	201509
RD	201510.....	201609
RA(C).....	201610.....	201709
LTM	201710.....	204709

RC expected: 201709

FTHU-008-R-01

RANGE 12 A/B

SITE DESCRIPTION

This is a transferred range, owned by the U.S. Department of Agriculture, National Forest Service, comprising 256 acres in an undeveloped area to the west of the southern part of the installation. This range was used as a close combat range with two lanes in 1952, and M-79s were used here in 1983. As of 1983, 2,350 rounds had been fired on the main range, though it is unclear how many of these rounds would have landed outside the installation boundary. Range personnel stated that because of the mountainous topography and elevated nature of this range that such deposition could not occur. Range personnel even provided a copy of a waivers stating that munitions could not have been deposited on this portion of the range. However, Range personnel stated, and provided graphic studies showing, that it is in fact possible that munitions from this range may have ended up in this location. No remediation activities are known to have taken place at this range. This range was never owned by DoD.

STATUS

RAC Score: 5

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110.....	200305
RI.....	201410.....	201509
RD	201510.....	201609
RA(C).....	201610.....	201709
LTM	201710.....	204709

RC expected: 201709

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

FTHU-009-R-01

INFILTRATION RANGE

SITE DESCRIPTION

This is a transferred range, owned by the U.S. Department of Agriculture, National Forest Service, comprising 15 acres of undeveloped land to the southeast of the southern part of the installation. A historical map shows this range's safety fan extending offsite. Supplemental information indicates that .30 caliber machine guns and small explosives were generally used in infiltration ranges. No remediation activities are known to have taken place at this range. This range was never owned by DoD.

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

STATUS

RAC Score: 4

CONTAMINANTS:
Explosive

MEDIA OF CONCERN:
Groundwater, Soil

PHASES	Start	End
PA	200110	200305
RI	201410	201509
RD	201510	201609
RA(C)	201610	201709
LTM	201710	204709

RC expected: 201709

FTHU-010-R-01 TRANSITION RANGE

SITE DESCRIPTION

This is a transferred range, owned by the U.S. Department of Agriculture, National Forest Service, comprising 24 acres in an undeveloped area to the southeast of the southern part of the installation. The transition range had a range fan extending beyond the installation boundary. In general, 7.62 and 5.56 millimeter rifles were fired at this multi-distance range. No remediation activities are known to have taken place at this range. This range was never owned by DoD.

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal is expected.

STATUS

RAC Score: 5

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110.....	200305
RI.....	201410.....	201509
RD	201510.....	201609
RA(C).....	201610.....	201709

RC expected: 201709

FTHU-011-R-01

UNIDENTIFIED WESTERN RANGE FAN

SITE DESCRIPTION

This is a transferred range, owned by the U.S. Department of Agriculture, National Forest Service, comprising 71 acres in an undeveloped area to the west of the installation. This range is comprised of a safety fan that extended offsite; no further information was available regarding the uses of this range. According to Range personnel, because of the nature of the higher mountainous topography at the distant western end of the fan, it would have been impossible for munitions to end up outside the site boundary within this fan, and that is why the waivers were issued. However, Range personnel at the Arizona NGB offered oral and graphic information suggesting that depending upon the use and elevations of the weapons being fired, some of the munitions fired at these ranges could in fact have been fired over the mountains on the western installation boundary. No remediation activities are known to have taken place at this range. This range was never owned by DoD.

STATUS

RAC Score: 5

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110.....	200305
RI.....	201410.....	201509
RD	201510.....	201609
RA(C).....	201610.....	201709

RC expected: 201709

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal is expected.

FTHU-012-R-01

EAA RANGE 1

SITE DESCRIPTION

This is a transferred range, with private ownership, comprising 12 acres in an undeveloped area to the northeast of the installation's East Artillery Range. No historical information was collected regarding this land's use as a range, except that acquisition documents described this property as land that was to be used as part of the installation's East Artillery Range. It should be noted that a child was killed in a historical incident involving UXO at or near EAA 3. Although EAA 1 is a separate tract from EAA 3, the two tracts were acquired in the same era, north of the East Artillery Range, and according to acquisition documents, for generally the same purposes. An assumption was made that the munitions found in the EAA ranges would be the same as the munitions used and found in the East Artillery Range, because these parcels were obtained for range purposes as part of the East Artillery Range. The munitions found in the East Artillery Range were noted by installation personnel. Although munitions were removed from the East Artillery Range, no remediation activities are known to have taken place at this range. The land for this range was owned by the Army beginning sometime in the late 1930s or early 1940. It is unknown when this land was transferred back to other owners.

STATUS

RAC Score: 2

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110	200305
RI	201410	201509
RD	201510	201609
RA(C)	201610	201709
LTM	201710	204709

RC expected: 201709

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

FTHU-013-R-01

EAA RANGE 2

SITE DESCRIPTION

This is a transferred range, with private ownership, comprising 761 acres north and adjacent to the installation's East Artillery Range. No historical information was collected regarding this land's use as a range, except that acquisition documents described this property as land that was to be used as part of the installation's East Artillery Range. It should be noted that a child was killed in a historical incident involving UXO at or near EEPA 3, which is near EAA 2. Although EAA 2 is a separate tract from EAA 3, the two tracts were acquired in the same era, north of the East Artillery Range, and according to acquisition documents, for generally the same purposes. The area of this range is currently used primarily as farmland. An assumption was made that the munitions found in the EAA ranges would be the same as the munitions

used and found in the East Artillery Range, because these parcels were obtained as range land as part of the East Artillery Range. The munitions found in the East Artillery Range were noted by installation personnel. Although munitions were removed from the East Artillery Range, no remediation activities are known to have taken place at this range. The land for this range was owned by the Army beginning sometime in the late 1930s or early 1940s. It is unknown when this land was transferred back to other owners.

STATUS

RAC Score: 2

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110	200305
RI	201410	201509
RD	201510	201609
RA(C)	201610	201709
LTM	201710	204709

RC expected: 201709

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

FTHU-014-R-01

EAA RANGE 3

SITE DESCRIPTION

This is a transferred range, with private ownership, comprising 568 acres to the northwest and adjacent to the installation's East Artillery Range, in and around Huachuca City, Arizona. The current use of the land comprising this range is primarily residential. No historical information was collected regarding this land's use as a range, except that acquisition documents described this property as land that was to be used as part of the installation's East Artillery Range. It should be noted that a child was killed in a historical incident involving UXO at or near EEA 3. An assumption was made that the munitions found in the EAA ranges would be the same as the munitions used and found in the East Artillery Range, because these parcels were obtained as range land as part of the East Artillery Range. The munitions found in the East Artillery Range were noted by installation personnel. Although munitions were removed from the East Artillery Range, no remediation activities are known to have taken place at this range. The land for this range was owned by the Army beginning sometime in the late 1930s or early 1940s. It is unknown when this land was transferred back to other owners.

STATUS

RAC Score: 2

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110	200305
RI	201410	201509
RD	201510	201609
RA(C)	201610	201709
LTM	201710	204709

RC expected: 201709

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

FTHU-015-R-01

OPEN FIELD ARTILLERY RANGE

SITE DESCRIPTION

This is a closed range, still owned by the U.S. Army, comprising 132 acres on the west side of the installation's cantonment area. This range is shown on two maps as having a firing point near the former intersection of Whiteside and 3rd Streets. It is currently an undeveloped portion of the installation cantonment area. The direction of fire for this range was not indicated on the referenced maps. However, it was assumed that the firing direction was to the south, with the firing direction shown on another map for an area also referred to as an open field artillery range. No remediation activities are known to have taken place at this range.

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

STATUS

RAC Score: 2

CONTAMINANTS:

Explosive

MEDIA OF CONCERN:

Groundwater, Soil

PHASES	Start	End
PA	200110.....	200305
RI.....	201410.....	201509
RD	201510.....	201609
RA(C).....	201610.....	201709
LTM	201710.....	204709

RC expected: 201709

FTHU-016-R-01
1977 TRAINING AREA C

SITE DESCRIPTION

This is a closed range, still owned by the U.S. Army, comprising 135 acres in the southern portion of what is now an undeveloped portion of the installation cantonment area. According to the Installation Range Officer, training exercises in this range included the use of blank ammunition, pyrotechnics, smoke, grenade and artillery simulations. This area also covers a historical bayonet course that comprised 3.54 acres and was shown on a 1941 map of the installation; there was no other information available regarding this range. No remediation activities are known to have taken place at this range.

CLEANUP STRATEGY

SI will be completed to determine what further action is necessary; however, waste removal and UXO with land use controls is expected.

STATUS

RAC Score: 2

CONTAMINANTS:
Explosive

MEDIA OF CONCERN:
Groundwater, Soil

PHASES	Start	End
PA	200110	200305
RI	201410	201509
RD	201510	201609
RA(C)	201610	201709
LTM	201710	204709

RC expected: 201709

PAST MILESTONES

MMRP Start Date: 200110

PROJECTED MILESTONES

Phase Completion Milestones: 204709

ROD/DD Approval Dates: 2017010

Construction Completion: 201709

Completion Date of all RA(C) Activities: 201709

Completion Date of IRP (including LTM phase): 204709

Fort Huachuca MMRP Schedule

(Based on current funding constraints)

AEDB-R Site	Phase	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15+
FTHU-001-R-01	RI/FS										
	RD										
	RA(C)										
FTHU-002-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										
FTHU-003-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										
FTHU-004-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										
FTHU-005-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										
FTHU-006-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										
FTHU-007-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										
FTHU-008-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										
FTHU-009-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										
FTHU-010-R-01	RI/FS										
	RD										
	RA(C)										
FTHU-011-R-01	RI/FS										
	RD										
	RA(C)										
FTHU-012-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										
FTHU-013-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										

Fort Huachuca MMRP Schedule

(Based on current funding constraints)

AEDB-R Site	Phase	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15+
FTHU-014-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										
FTHU-015-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										
FTHU-016-R-01	RI/FS										
	RD										
	RA(C)										
	LTM										

PRIOR YEAR FUNDING

None

CURRENT YEAR FUNDING

None

FUTURE YEAR FUNDING

TOTAL FUTURE REQUIREMENTS: \$108,642,000